

Fig. 1

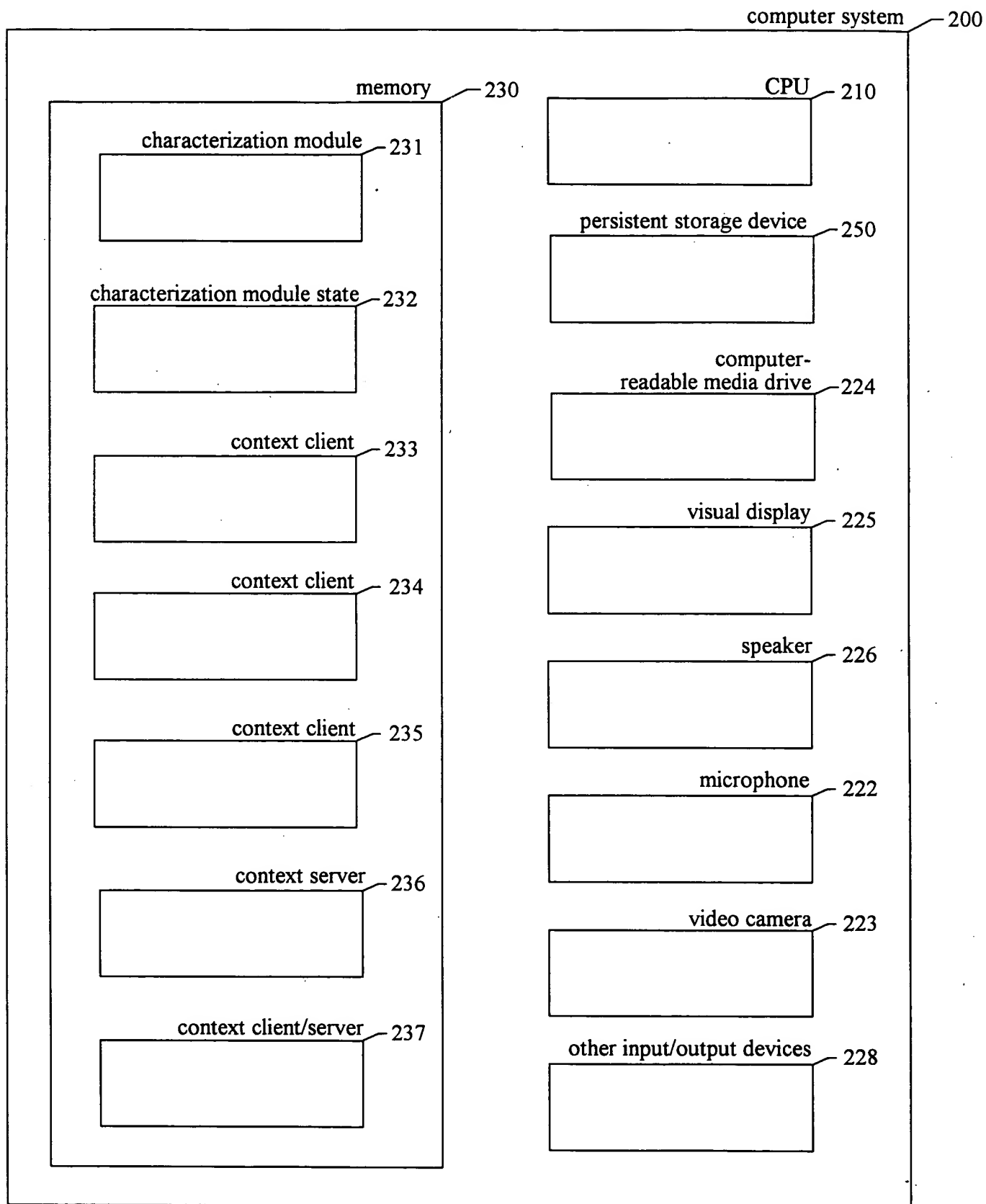


Fig. 2

8005-fig3.vsd

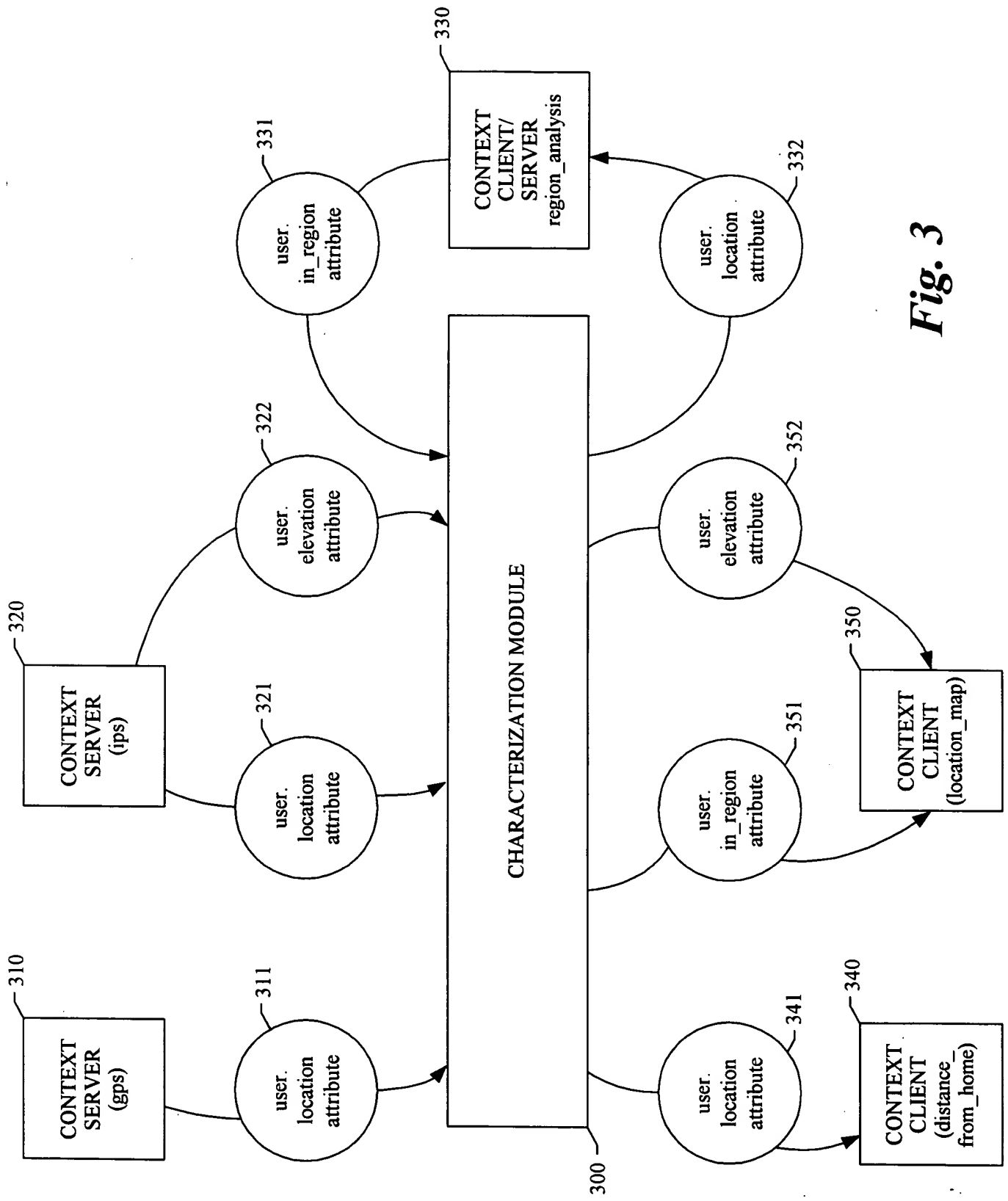


Fig. 3

context server table 400				
context server name	version	installation date	filename	request handler
401—gps	1.00.315	2/10/2000	gps.exe	(reference)
402—ips	1.00.315	2/21/2000	ips.exe	(reference)
403—location_region_analysis	1.00.315	2/10/2000	l_r_a.exe	(reference)
411		412	414	415

Fig. 4

attribute instance table 500					
attribute name	context server name	value	uncertainty	timestamp	units
501—user.location	gps	47°38.73' N, 122° 18.43' W	0° .09'	13:11:04.023 2/22/2000	degrees/minutes
502—user.location	ips	47°38.745' N, 122° 18.424' W	0° .021'	13:11:01.118 2/22/2000	degrees/minutes
503—user.elevation	ips	22	.5	13:11:01.118 2/22/2000	meters
504—user.in_region	location_region_analysis	none	none	none	none
511		512	513	514	515
					516

Fig. 5

context client table		600
context client name	message handler	
601 location_map	(reference)	612
602 distance_from_home	(reference)	
603 region_analysis	(reference)	

Fig. 6

attribute or instance registration table			700
context client name	attribute name	context server name	
701 region_analysis	user.location		712
702 distance_from_home	user.location		
703 location_map	user.elevation	ips	
704 location_map	user.in_region	region_analysis	

Fig. 7

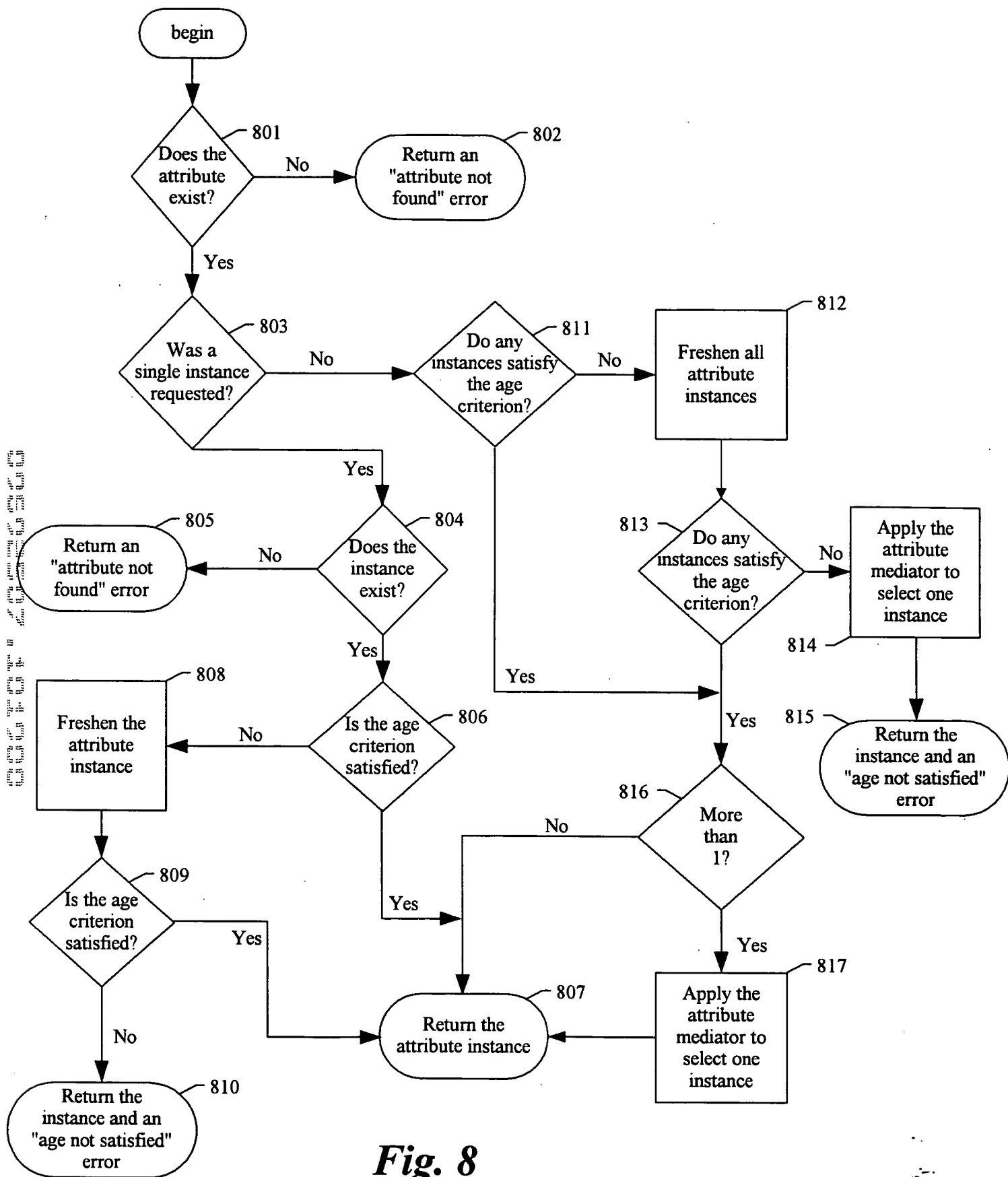


Fig. 8

attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
user.location	gps	47°38.73' N, 122° 18.43' W	0° .09'	13:11:04.023 2/22/2000	degrees/minutes	2
user.location	ips	47°38.745' N, 122° 18.424' W	0° .021'	13:11:01.118 2/22/2000	degrees/minutes	2
user.elevation	ips	22.25	.5	13:11:06.565 2/22/2000	meters	1
user.in_region	location_analysis	none	none	none	none	1

Fig. 9

condition name	context client name	first logical parameter	second logical parameter	comparison value	logical operator
in_region_true	region_analysis	user.in_region	none	TRUE	=

Fig. 10

condition monitor name	context client name	condition name	behavior	frequency	condition last evaluated	trigger handler reference	stopped
region_boundary_crossed	region_analysis	in_region_true	any state change	30	13:11:29.101 2/22/2000	(reference)	no

Fig. 11

condition monitor name	context client name	condition name	behavior	frequency	condition last evaluated	trigger handler reference	stopped
region_boundary_crossed	region_analysis	in_region_true	any state change	30	13:11:59.101 2/22/2000	(reference)	yes

Fig. 12

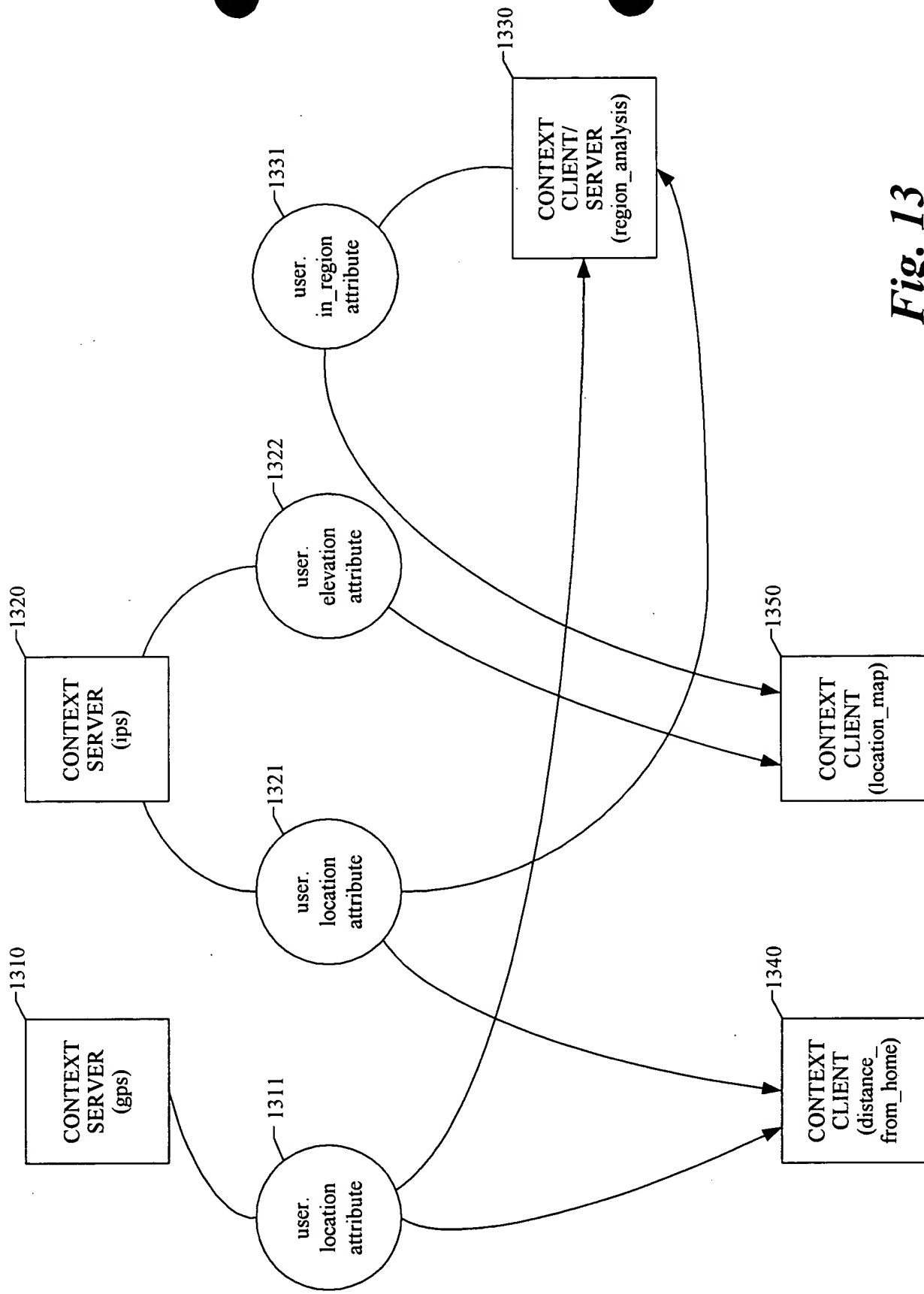


Fig. 13

1401

attribute instance property table				1400
attribute name	context server name	property name	property value	
user location	ips	security_token	5A637AR	

Fig. 14